



Insects.

DESCRIPTIVE



Straight-Winged Insects

ORTHOPTERA

Wings lie straight along body biting mouth parts; direct development (no pupa or resting stage.)

COCKROACH

Found in damp places in houses; remedy—pyrethrum.

PRAYING MANTIS

It is so like surroundings as to be unobserved by its victim, (aggressive resemblance.) The pious attitude of its fore claws is its "prayer" for prey. Southern States.

WALKING-STICK

Northern form wingless; feeds on leaves; escapes enemies by close resemblance to twigs (protective resemblance).

LOCUST

Short-horned grasshopper, example, the coral-winged grasshopper.

Rocky Mountain Locust caused an estimated loss of 200 million dollars in 1874-1876.

LONG-HORNED MEADOW GRASSHOPPER

Color green; antennae long slender; closely related to katydid.

CRICKET

Male has rasps and scrapers on wing covers, playing the part of a fiddle; ear is on the fore leg.

DRAGON-FLY (Odonata)

Found about brooks and ponds. A swift flier with strong jaws for eating mosquitoes and other insects. Cannot sting or injure ears.

ARMY WORM

Migrates in vast bodies in search of grasses and cereals, devastating the fields. East of Rocky Mountains. Remedy—burning grass lands in winter.

CUT WORMS (Larva of Owllet Moth)

Burrow in ground, and cut off the sprouting corn. Remedy—poisoned clover and bran, or pitfalls.

TUSSOCK MOTH

Eats foliage of shade trees; a great pest in cities; female wingless; lays eggs in a frothy mass on top of cocoon from which she emerges. Remedy—spraying and hand picking cocoons.

AMERICAN SILK WORM

Spins cocoon with leaves on outside, and makes the large Polythemus moth.

CECROPIA MOTH

Very large; larva eat greedily the willow, alder, etc.; adult cannot eat; cocoon on a twig.

CABBAGE BUTTERFLY

Estimate five million dollars damage yearly; imported from Europe. Remedy—kerosene emulsion, pyrethrum.

LEAF BUTTERFLY

Asia. Mimics in form and color a dead brown leaf, even to the mid vein and petiole.

LONG-HORNED GRASSHOPPER



CRICKET



CORAL-WINGED GRASSHOPPER



MANTES



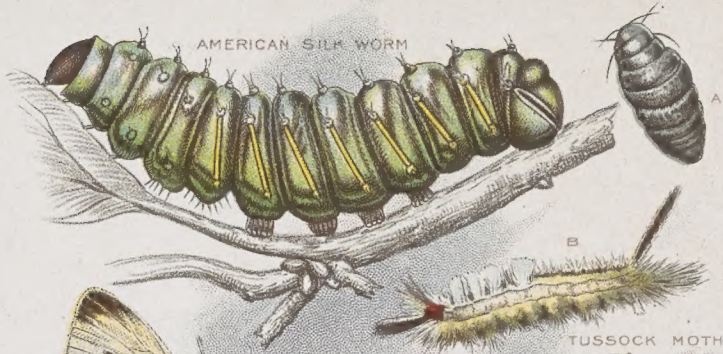
WALKING-STICK



COCKROACH



AMERICAN SILK WORM



B

TUSsock Moth



A - FEMALE
B - LARVA
C - COCOON



CABBAGE BUTTERFLY

A - LARVA
B - PUPA



UNDERWING



LEAF - BUTTERFLY



CECROPIA Moth

HONEY-BEES



A



B

A-DRONE
B-WORKER
C-QUEEN



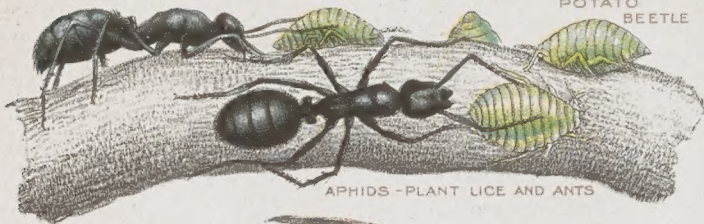
C



LADY-BUG



POTATO
BEETLE



APHIDS - PLANT LICE AND ANTS



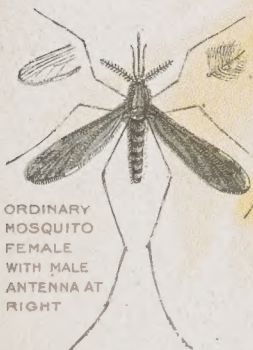
WASP - MUD-DAUBER



DRAGON FLY



HORNET
MIMICKED BY
LOCUST-BORER, A BEETLE



ORDINARY
MOSQUITO
FEMALE
WITH MALE
ANTENNA AT
RIGHT

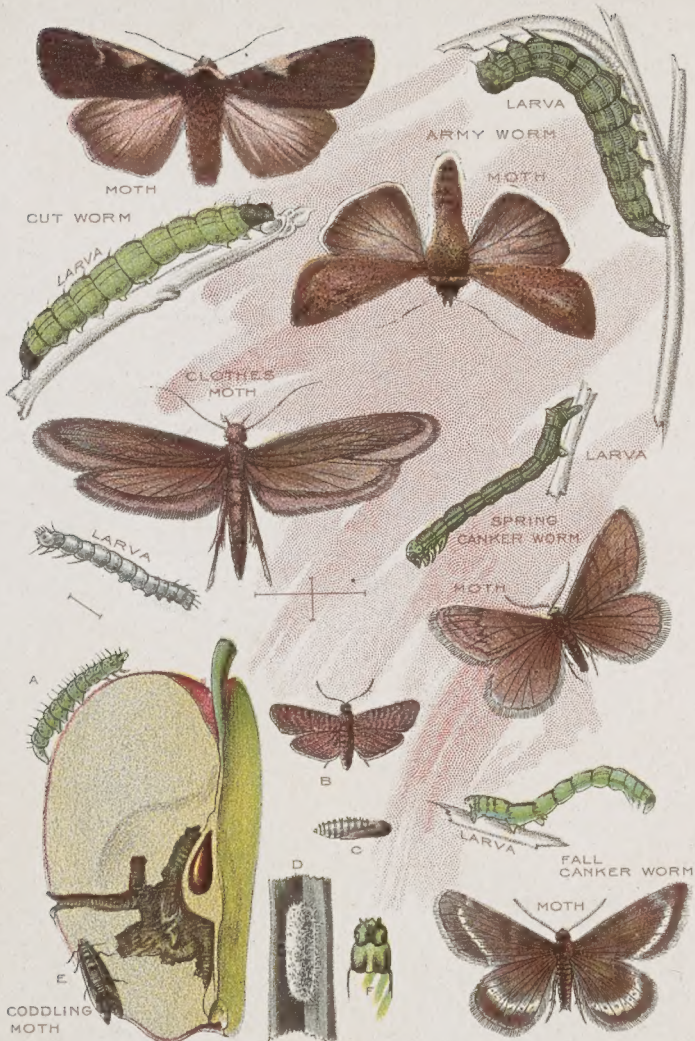


MALE



FEMALE

MALARIAL
MOSQUITO



A-LARVA C-PUPA E-MOTH AT REST
 B-MOTH D-COCOON F-ENLARGED HEAD OF LARVA

DESCRIPTIVE



Two-Winged Insects

DIPTERA

FLIES AND MOSQUITOES Malarial

Mosquito conveys that disease by its bite; male mosquito does not bite. Remedy—draining marshes or kerosene oil on stagnant water.

Sheath-Winged Insects

COLEOPTERA

LADY-BUG BEETLES

Does great good by eating plant lice, scale insects, etc.

ELEPHANT BEETLE

Central America; goes in flocks and settles on tree where it feeds. See cover (natural size).

COLORADO POTATO BEETLE

Eight million dollars estimated damage yearly; migrated eastward. Remedy—spray with Paris green.

Membrane-Winged Insects

HYMENOPTERA

ANTS

Males and females have wings for nuptial flight; wingless workers tend plant lice and gather from them honey dew of which ants are very fond.

MUD DAUBER WASPS

Paralyzes spiders by a sting and stores them in nest as fresh meat for young.

HORNET

A social wasp; fierce fighter; inflicts painful sting; mimicked by the locust-borer beetle.

HONEY BEE

A socialist with wonderful instincts.

Scale-Winged Insects

LEPIDOPTERA

Sucking mouth parts (larva has biting mouth parts.) The indirect development (pupa stage) and marvelous transformation led Greeks to use same word for butterfly and soul.

MOTHS—Antennae

Usually thread like or feather like; night fliers; wings at rest are not held vertically as in butterflies.

CODDLING MOTH

Causes the "worm" in apples; estimated damage in New York alone three million annually, and twenty million in whole country. Remedy—spray with Paris Green or London Purple.

CLOTHES MOTH

Eats woolens, furs, etc. Remedy—cold storage, a thorough brushing of clothes, exposure to sunlight, then packing in sealed boxes.

CANKER WORM (measuring Worm)

A pest of orchard and shade trees; a tin collar around a tree keeps females from ascending; using poison sprays and protecting the birds that feed on them.

UNDERWING MOTH

It rests head downward. Its gorgeous hind wings, hidden by the mottled fore wings, which resemble the bark of the tree (protective resemblance).

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